

Agency	Use
Permit No.: MT60101	30
Date Rec'd	
Rec'd By	

FORM NMP

Nutrient Management Plan

READ THIS BEFORE COMPLETING FORM: Before completing this form (Form NMP), Concentrated Animal Feeding Operation (CAFO) operators need to read the General Permit, particularly Part IV.A. CAFO operators also need to read the "Instructions For Filling Out Form NMP," found at the back of the Form. Form NMP is intended to help CAFO operators develop a site-specific Nutrient Management Plan, in compliance with Part IV.A of the General Permit and all applicable State rules and statutes. Your Nutrient Management Plan must be maintained at the site as required in Part III of the General Permit. Sections B and C on your Form NMP must state the information exactly the same way as it was stated on the most recently submitted version of your Form 2B. Attach additional pages as necessary, indicating the corresponding section number on this NMP form. For additional help in filling out this form please read the attached instructions. The 2008 General Permit, current fee schedule, and related forms are available from the Water Protection Bureau at (406) 444-3080 or https://www.deq.mt.gov/wqinfo/MPDES/CAFO.asp

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APR 02 2012

DEQ/WPB PERMITTING & COMPLIANCE DIV. FINANCIAL SERVICES



1. Livestock Statistics		
Animal Type and number of animals	# of Days on Site (per year)	Annual Manure Production (tons cu. yds.or gal)
1. 100 hd of replacement how	60-90 Days	111 tons
1. 100 hd of replacement have 2. SO hd of boughten colves	60-90 Days	337 tous
3.		
		And the second s
5.		
7.		
9	hay field, we dry	let it.
Describe manure handling at the facility: We haul it out to our Scope it then vemove it.	3:	let it.
Describe manure handling at the facility: We had it out to our Scope it then remove it. Trequency of Manure Removal from confinement areas We had it out every so	s: spring and fill	
requency of Manure Removal from confinement areas	s: spring and fill	
Describe manure handling at the facility: We had it out to our Scope it then remove it. Trequency of Manure Removal from confinement areas We had it out every so so this manure temporarily stored in any location other foot then how and where?	s: spring and fill	

Waste Control Structures (wama/tuna)	Longth (4)	Width (4)	Danth (4)	Volume (cubic ft on rallow)
Waste Control Structure (name/type) 1. (4) + October 1	Length (ft)	Width (ft)	Depth (ft)	Volume (cubic ft or gallons)
Waste Pana	100	100	2	200,000
2. Converted pen to 3.	evapora	tion pour	r)	

4.				
5.				
6.				
7.				
8.				
9.				and the second s
10.				
11.				
12.				
Bury them as they				
5. Clean Water Diversion Practices				
Describe how clean water is diverted fi	om production	n area:		
a road was a	nd burm	s have	been	put in place
to prevent clean	water -	Ivam ent	tering 1	scality from
a road way a to prevent clean the field.	7	anne de la Region de la company de la Co		
U		HISTORIAN CONTROL OF THE STATE		
ада од 100 км ју до 4 мер 10 км не на 10 км не 10 км не	nger an olde god ett met film den det fle ett an de en olde god fle met de en olde god fle en olde en olde en o			
масилительного семности и постаности постаности постаности.	a delan da la			guega serga-opi majari para di di di ocus di kuluku sa di digi Malakul di Para Malama ang upa ayu sa ayu sa ayu sa di Malama ang upa ayu sa ayu sa ayu sa di Malama ang upa ayu sa ayu sa ayu sa di Malama ayu sa di Malama ayu sa ayu
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			tamin direct del del serve de la differencia del descripció de la del	
				Accessed to the Control of the Contr

Translais 1 9

Describe how animals and wastes from Contact with State Waters Describe how animals and wastes are prohibited from direct contact with state waters:
No state water in facality. Oil animals are fenced and contained away from state water
state water
Describe how chemicals and other contaminants are handled on-site:
All pour on for cattle is locked away in the affice
and all 240 and vound up is lacked away in stavage sh
8. Best Management Practice (BMPS) Describe in detail all temporary, permanent and structural Best Management Practices (BMPs) which will be used to control runoff of pollutants from facility's production area. Indicate the location of these measures. Include a schedule for implementation of each of these measures. Examples of BMP measures could include are not limited to: constructing ditches, terraces, and waterways above an open lot to divert clean water run installing gutters, downspouts and buried conduits to divert roof drainage; providing more roofed area; decreasing open lot surface area; repairing or adjusting water systems to minimize water wastage; using pracamounts of water for cooling purposes; recycling water if practical and applicable.
Ditches and burms have been constacted to prevent
any clean water from entering facility, we have clean water diversions, we also have thether a ho
clean water deversions, we also have thether -a po
to prevent any waste water van aff.
In our pen we have automatic water, that are checked
duly

Describe in detail all temporary, permanent	and structural F	Best Management Practices (BMPs) w	hich will be
used to control runoff of pollutants from fac			
practices. If not already in use, include a sch			
details and specifications may be used to sur include but are not limited to: maintaining se			
irrigation practices to prevent ponding of wa			
frozen ground; consulting with the Department			
ground; applying wastes at agronomic rates.		Tyling my myma viacos vo months and	J 44-00 4 OLOU
Plant sampling/tissue analysis	(ver)(no)	Rotational grazin	
Conservation or reduced tillage	(yes/no	Manure injection or incorporation	•
Terraces or other water control structures	yes/no	Contour planting	
Riparian buffers or vegetative filter strips	yes/no	Winter "scavenger" or cover crop	ps yes/no
Other examples			
			Amento de reptir general de la Administra de la rediscussión de secución de presenta (general a (general a general a
	need the state of		MRSM-MANAGON (ASM-DE ASTRONOMO TO THE ANALYSIS AND ASSESSED AS THE ASSESSED AS
9. Implementation, Operation, Maintenan	and Recor	d Kaaning - Cuidanaa	
		• •	
The permittee is required to develop guidance maintenance of the facility, and record keep			ion and
Has a guidance document been developed for will develop and start in 2011	or the facility?	Yes No	
Certify the document addresses the followin		3 :	
Implementation of the NMP: Yes		,	
Facility operation and maintenance: Yes			
Record keeping and reporting:	š No		
Sample collection and analysis:	? No		
Manure transfer:	s No		
Provide name, date and location of most rec	ent documenta	tion:	
Steinbach feedlot, in	allie wit	buch is mountained on	orchit
) (Oir. Wall of Jest 101 ; 111)	DAJIC WI	HEN IS MINITERIOR COL	71741
	Martin minimus for chine mention in construction of the constructi		Politicismos culturas international delication of the control of t
If your answer to any of the above question	is no, provide	explanation	The second secon
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	a the Children in earth of any lookelite Children on the again a second shift converse separate		

Section E - Land Application
Will manure be land applied to land either owned, rented, or leased by the owner or operator of the facility?
No If no, then provide an explanation of how animal waste at this site are managed.
Yes If yes, then the information requested in Section E must be provided.
There 140 Acres of Hay land
Photos and/or Maps
Attach an aerial photograph or map of the site where manure is to be applied. (Use multiple photos/maps if
necessary to show required details.) The photo(s)/map(s) must be printed on no larger than an 11"x17" piece of
paper, and must clearly identify the following items:
Individual field boundaries for all planned land application areas
A name, number, letter or other means of identifying each individual land application field
* *
• The location of any down-gradient surface waters
The location of any down-gradient open tile line intake structures
The location of any down-gradient sinkholes
The location of any down-gradient agricultural well heads
The location of all conduits to surface waters
• The specific manure/waste handling or nutrient management restrictions associated with each land
application field.
• The soil type(s) present and their locations within the individual land application field(s)
• The location of buffers and setbacks around state surface waters, well heads, etc.
The location of outlets and schodeks around state surface waters, well fleads, etc.
Land Application Equipment Calibration
Describe the type of equipment used to land apply wastes and the calibrating procedures:
We weight Truck emply and louded
Manure Sampling and Analysis Procedures
A representative manure sample will be analyzed a minimum of once annually for Total Nitrogen, and Total
Phosphorus. Analysis results will be reported in lbs/ton or lbs/1,000 gal. Results of these analyses will be used
n determining application rates for manure, litter, and process wastewater.
Manure Sample collection will occur according to the following method:
The recommended method(s) found in Section 5 of Department Circular DEQ 9
Other (describe)
Soil Sampling and Analysis Procedures
A representative soil sample from the top 6 inch layer of soil in each field will be analyzed for phosphorus
content at least once every five years. Analyses will be conducted by a qualified laboratory, using the Olsen P
est. Results will be reported in parts per million (ppm) and will be used in determining application rates for
manure, litter, and process wastewater.
Soil sample collection will occur according to the following method:
The recommended method(s) found in Section 5 of Department Circular DEQ 9
Other (describe)
Other (descripe)

¥7....1 3

Land Application Data-Narrative approach

The following must be filled out <u>for each field</u> to which manure, litter or process wastewater will or may be applied for the period of the permit (5 years). Use as many sheets as necessary to fulfill this requirement. <u>Fields</u> with identical crops and soil types may be grouped together.

Crops and Manure	
Field Name and spreadable acres for each (for fields w	ith identical crops and soils type):
Field # 1	
140 Acres	
Crop 1 (year 1 or ?) plant species	
Irrigated (Y/N)	yes
Yield Goal (ton/ac or bushel/ac)	5 ton
N Content of soil as nitrate (lbs/acre or ppm)	
P Content of soil as P ₂ O ₅ (lbs/acre or ppm)	esimoted 5 lbs per/Hc esimoted less than 25 ppn
Time of Year When Application will Occur (month)	April
Application frequency (per year by month)	one time, for one week, spring
Form of manure (liquid/solid)	solid
Method of Application	truck employer
Is manure incorporated or broadcast?	truck speader brandcast
Frequency of Application (yearly, biannual, etc.?)	All grains (wheat)
Crop 2	All courins (wheat)
Irrigated (Y/N)	ves
Yield Goal (ton/ac or bushel/ac)	5 ton
N Content of soil as Nitrate (lbs/acre or ppm)	
P Content of soil as P ₂ O ₅ (lbs/acre or ppm)	esimited 5 lbs per 14c esimited less thin 25 ppm
Time of Year When Application will Occur (month)	April
Application frequency (per year, by month)	one time , In one week, spring
Form of manure (liquid/solid)	solid
Method of Application	one time, for one week, spring solid broadcost truck speader broadcost
Is manure broadcast, injected or incorporated?	hroadcast
Frequency of Application (Annual, Biannual, ,etc?)	ONIC O YELV

Phosphorus Risk Assessment

The permittee shall assess the risk of phosphorus contamination of state waters. An assessment shall be conducted for each field, under the control of the operator, to which manure, litter or process wastewater will or may be applied. If a new field is added in the future, then the permittee must submit a revised (modified) NMP. The permittee has the option of using either Method A or Method B (below) to complete the assessment. Copies of all tables and calculations used to complete the assessments, as well as the results of the assessments, shall be submitted to the Department and copies shall be maintained on-site at the facility and available for Departmental review. The results of the assessments shall be used to determine the appropriate basis for land application of wastes from the facility.

Method Used

Indicate which method will be used to determine phosphorus application:

Method A – Representative Soil Sample

Method B – Phosphorus Index

Method A - Representative Soil Sample

a) Obtain one or more representative soil sample(s) from the field.

b) Have the sample analyzed for Phosphorus by a qualified lab. The "Olsen P test" must be used for the analysis, and the result must be reported in parts per million (ppm).

c) Using the results of the Olsen P test, determine the application basis according to the Table below

Soil Test	
Olsen P Soil Test Result (ppm)	Application Basis
<25.0	Nitrogen Needs Of Crop
25.1 - 100.0	Phosphorus Needs Of Crop
100.0 - 150.0	Phosphorus Needs up to Crop Removal Rate
>150.0	No Application

Method B – Phosphorus Index

- a) Complete a Phosphorus Index according to for each crop grown on each field. Complete table in Appendix A to calculate phosphorus index. For information on filling out specific sections Appendix A, please refer to Attachment 2 of Department Circular DEQ 9.
- b) Using the calculated Total Phosphorus Index Value, assign the overall site/field vulnerability to phosphorus loss according to the table below.

Total Phosphorus		
Total Phosphorus Index Value	Site Vulnerability to Phosphorus Loss	
<11	Low	
11-21	Medium	
22-43	High	
>43	Very High	

c) Using the calculated Site Vulnerability to Phosphorus Loss, determine the appropriate application basis according to the table below.

te Vulnerability to Phosphorus Loss		
Site Vulnerability to Phosphorus Loss	Application Basis	
Low	Nitrogen Needs	
Medium	Nitrogen Needs	
High	Phosphorus Need Up to Crop Removal	
Very High	Phosphorus Crop Removal or No Application	

d) The permittee will complete the *Nutrient Budget Worksheet*, below, for each crop grown on each field to which manure or process waste water is or may be applied during the first year of application. A copy of each Nutrient Budget Worksheet will be maintained on site, and a copy will be submitted to the Department.

		ent Budget Worksheet	Site/Fiel
osphorus-based Application	이 보고 있는 그리고 있는 것은 사람들은 사람들은 사람들이 살아 살아 먹는 것 같아 보고 있는 것이 모든 그리고 있는 것이 되었다. 그리고 있는 것은 그리고 있는 것이 없었다.	Nutrient Budget	ene/1 vel
		Crop Nutrient Needs, lbs/acre included in Department Circular DEQ 9	
•	100 lhs per/Ac	Credits from previous legume crops, lbs/acre (from DEQ-9), as applicable	(-)
	5 lbs/pe/Ac	Residuals from past manure production, lbs/acre (lbs/acre applied in previous year(s) x fractions listed in DEQ-9)	(-)
	0	Nutrients supplied by commercial fertilizer and Biosolids, lbs/acre	(-)
	0	Nutrients supplied in irrigation water, lbs/acre	(-)
	85	= Additional Nutrients Needed, lbs/acre	
	10 lbs/ton	Total Nitrogen and Phosphorus in manure, lbs/ton or lbs/1,000 gal (from manure test)	
	,5	Nutrient Avalability factor (for Nitrogen based application see DEQ-9, below; for Phosphorus based application use 1.0)	(x)
	. 5	= Available Nutrients in Manure, lbs/ton or lbs/1,000 gal	·
	19	Additional Nutrients needed, lbs/acre (calculated above)	
	/	Available Nutrients in Manure, lbs/ton or lbs/1,000 gal (calculated above)	(/)
	2 ton	= Manure Application Rate, tons/acre or 1,000 gal/acre	
		ents:	Commen
			gga ay day sana dina at dina dina dina dina dina dina dina dina
			Approximation of the complete states of

Section F - CERTIFICATION

Permittee Information:

This Form NMP must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief. true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

A. Name (Type or Print)	
Scott Steinbach	
B. Title (Type or Print)	C. Phone No. 264-5454
OW wev OPEVATOR	264-5454
D. Signature	E. Date Signed
Scott Stendals	3/27/2012
Return the Form NMP Nutrient Management Plan to:	the second secon

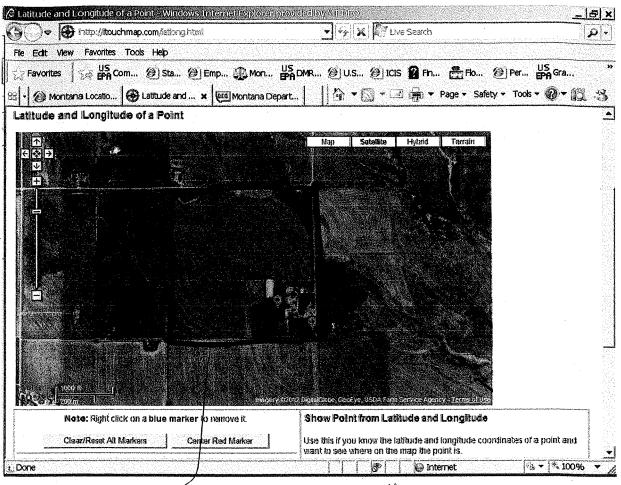
Nutrient Management Plan to:

Department of Environmental Quality Water Protection Bureau PO Box 200901 Helena, MT 59620-0901 (406) 444-3080

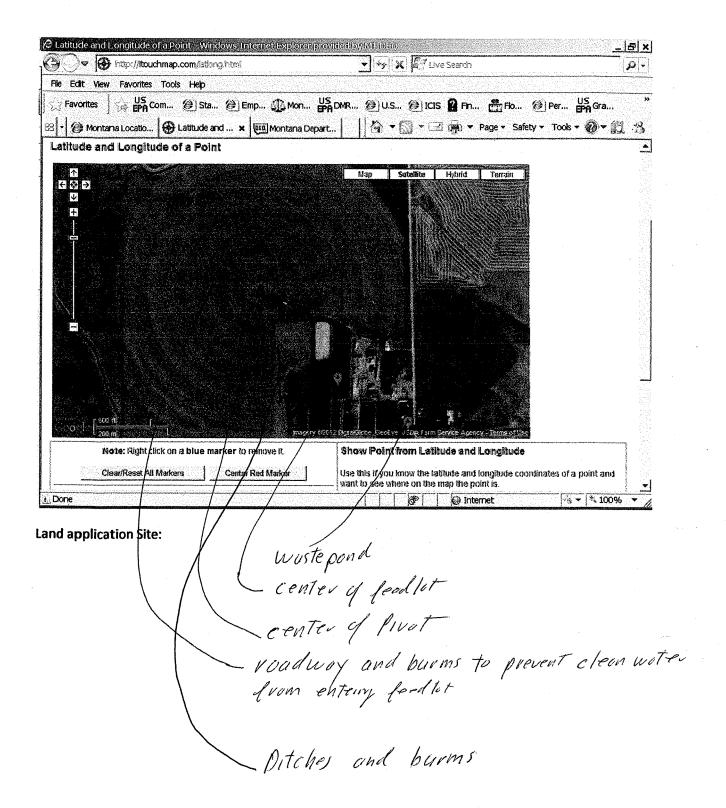
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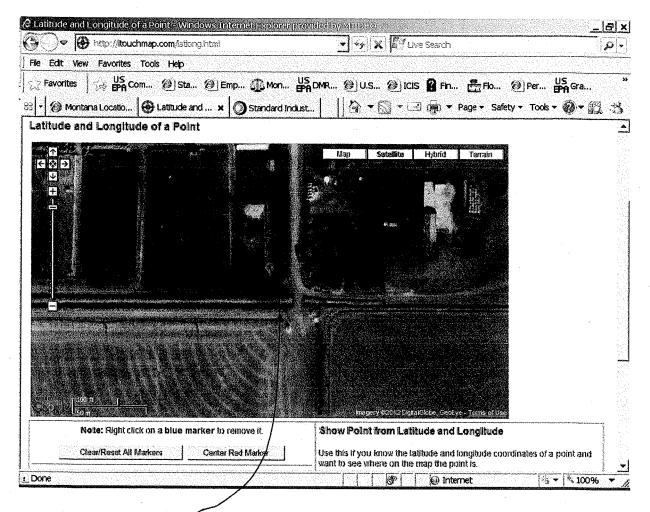
APR 02 2012

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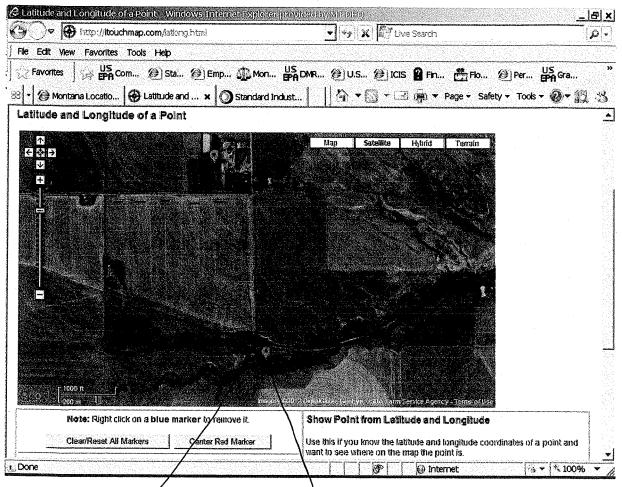


Stemboch feedlet boundier



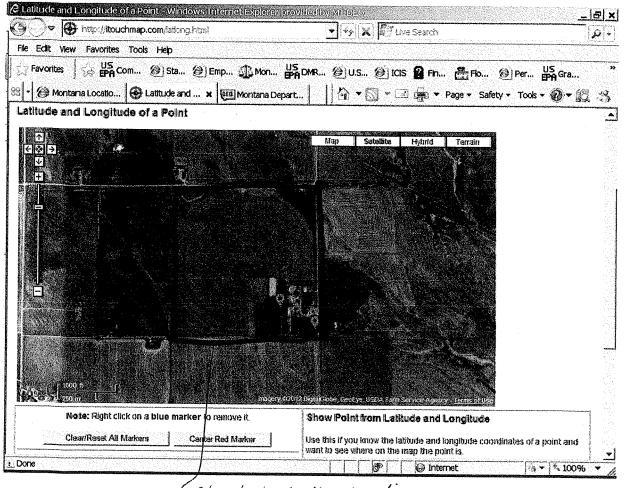


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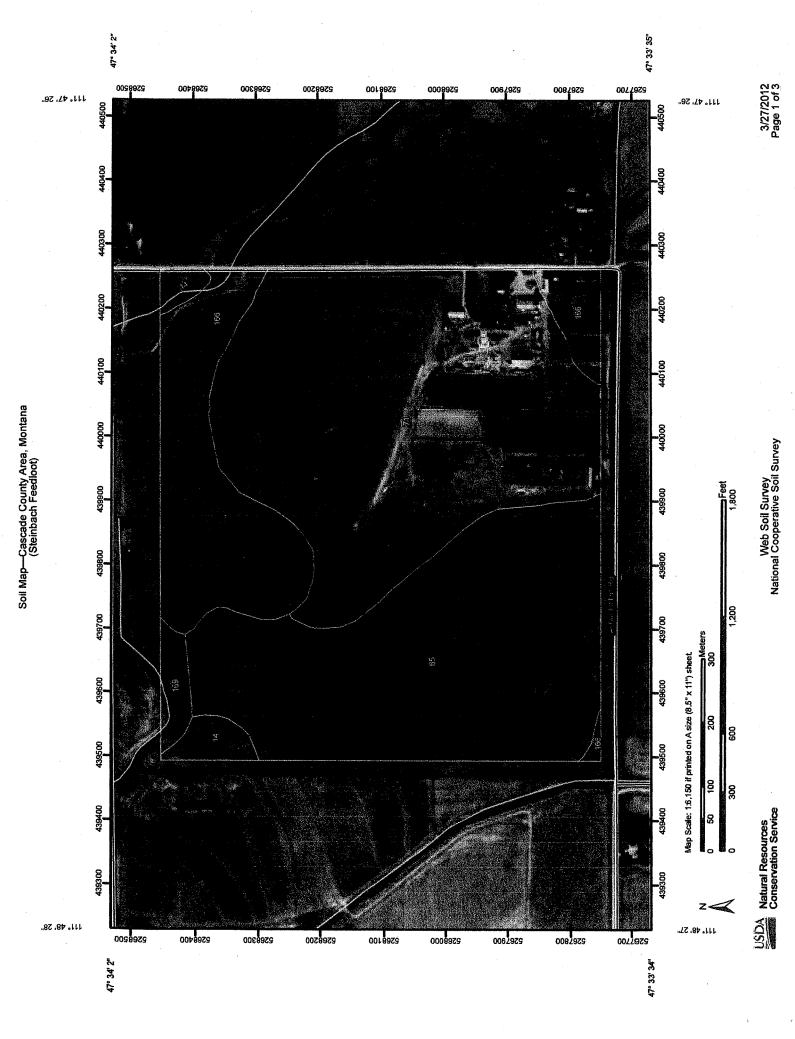


Annamed sunviver dramase)

Antch to the South and ditch to the cunnamed dramase



Steinbach feedlet boundier



MAP LEGEND

Miscellaneous Water	Mine or Quarry	لله Marsh or swamp	★ Lava Flow	Landfill	Gravelly Spot	∠ Gravel Pit	Closed Depression		Borrow Pit	Blowout	Special Point Features	CON WIRD CITIES	Soils Soil Man Units	Area of Interest (AOI)	Area of Interest (AOI)
Major Roads	US Routes	Interstate Highways	Rails	Transportation	Streams and Canals	Water Features	© Cities	E C	Other	Short Steep Slope	Gully	Special Line Features	Other	Wet Spot	Wery Stony Spot Output Description Output D

MAP INFORMATION

Map Scale: 1:6,150 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov Coordinate System: UTM Zone 12N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Cascade County Area, Montana Survey Area Data: Version 9, Jan 4, 2012

Date(s) aerial images were photographed: 7/20/2005

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

•

Perennial Water
Rock Outcrop

?

Local Roads

Severely Eroded Spot

Saline Spot Sandy Spot

Slide or Slip
Sodic Spot
Spoil Area
Stony Spot

Map Unit Legend

Cascade County Area, Montana (MT613)						
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI			
14	Aquepts and Aquolls, saline	2.8	2.1%			
65	Ethridge silty clay loam, 0 to 2 percent slopes	46.6	34.9%			
71	Evanston clay loam, 0 to 2 percent slopes	60.2	45.0%			
166	Rothiemay loam, 0 to 2 percent slopes	22.1	16.5%			
169	Rothiemay-Binna loams, 2 to 4 percent slopes	1.9	1.4%			
Totals for Area of Interest		133.7	100.0%			